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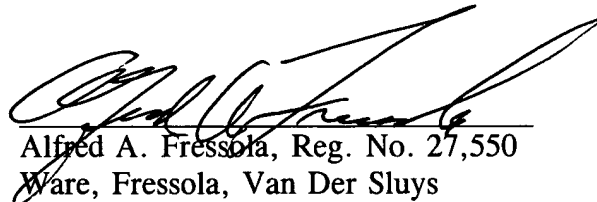
Remarks

This preliminary amendment is filed for the purpose of placing the application into standard U.S. format. Claims 5, 6, 9, 14 and 15 have been amended. Claims 17 and 18 have been added. Consideration and allowance of the claims is earnestly solicited.

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned "Version with markings to show changes made."

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Specification:

Paragraph beginning at line 2 of page 1 has been amended as follows:

This invention relates to measuring quality in networks such as cellular radio networks, and especially to measuring signal or service quality in adjacent cells in such networks. In

particular, the networks may be bandwidth limited time division multiple access (TDMA)

5 cellular networks or professional mobile radio (PMR) networks e.g. TETRA. [The following examples given herein particularly address the GSM system but, as will be clear to those skilled in the art, the method has particular application to TETRA].

In the Claims:

1           5.     (Amended) A method as claimed in [any preceding] claim 1, comprising the  
2 step of the mobile station transmitting to a cell site unit information indicating the estimated  
3 levels of interference with signals on at least two of the communication channels.

1           6.     (Amended) A method as claimed in [any preceding] claim 1, wherein the  
2 mobile station is in traffic communication on a traffic communication channel, the  
3 telecommunications system comprises a handover controller for controlling handover of the

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mobile station from the current communication channel to another one of the communication channels, and the method comprises the steps of:

the mobile station communicating to the handover controller via the current cell site unit information indicating the estimated levels of quality with signals on at least two of the communication channels; and

the handover control unit determining to which of the cell site units to hand over traffic communication of the mobile station on the basis of at least that information indicating the estimated levels of interference.

9. (Amended) A method as claimed in [any of claims 1 to 8] claim 1, wherein the mobile station stores an indication of a timing of the said signals on at least one of the communication channels and the mobile station interrupts another operation to receive the said signals at a time dependent on the stored indication of a timing.

14. (Amended) A mobile station as claimed in claim [12 or] 13, wherein the interference estimation unit comprises a Viterbi equaliser.

15. (Amended) A mobile station as claimed in [any of claims 11 to] claim 14, wherein the channel analysis unit is capable of receiving via the receiver information specifying the said communication channels.